

The PIPELESS CALORIC FURNACE

THE ORIGINAL PATENTED PIPELESS FURNACE



"Furnace Heat For Every Home"



PIONEERS OF PIPELESS HEATING



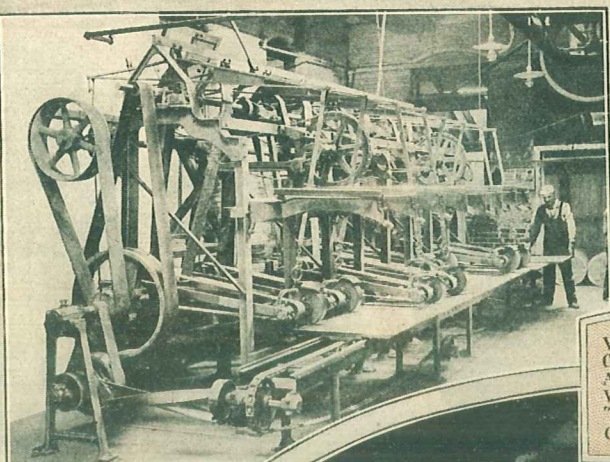
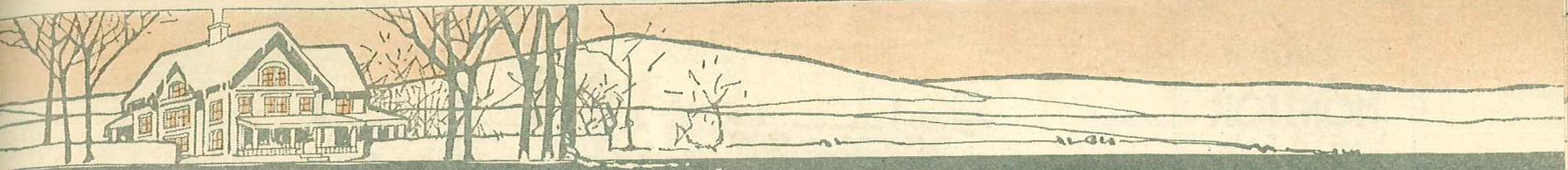
THE history of America's territorial and industrial expansion is largely an account of the work of men who blazed the paths of progress into virgin fields. Daniel Boone explored the Ohio River Valley; Lewis and Clark opened the great northwestern country and Pike led the way across the vast and fertile western plains. In business and invention, men such as Edison, Jim Hill, Harriman, McCormick, the Wright Brothers, Ford and hundreds of other leaders have been the pioneers of our civilization—the empire builders who pushed onward and upward in the face of every discouragement. Theirs has been the creed: "It can be done."

Among these twentieth century pioneers, Monitor Men have achieved a position of prominence. Nine years ago, we broke away from the traditions of the heating business and gave to the world the patented Caloric Pipeless Furnace. Thousands told us that what we attempted could not be done and others prophesied failure. But the same qualities of persistency, endurance, imagination and altruism that had made possible the achievements of the pioneers in other fields also made possible our great victory and today, the principles of pipeless heating as originally applied in the Caloric system, are recognized as correct by the foremost scientists and engineers.

The success which we have attained because of our faith in Monitor principles and products, has naturally encouraged imitators. Some of these men are the ones who ridiculed our efforts; but now they are hastening to cover their mistakes by rushing pell-mell into the manufacture of substitutes and makeshifts. They dare not copy the Caloric patents although the law of the universe allows them to follow in the trail that we have marked by years of patient toil. Pioneers must ever lead the way.

As the Pioneers of Pipeless Heating, we shall continue to exert our best efforts to retain the confidence and good will of more than 50,000 Caloric users and hundreds of Caloric dealers. We shall strive always, like the pioneers of the past and present, to build new paths of progress and thereby make the world a better place to live in.



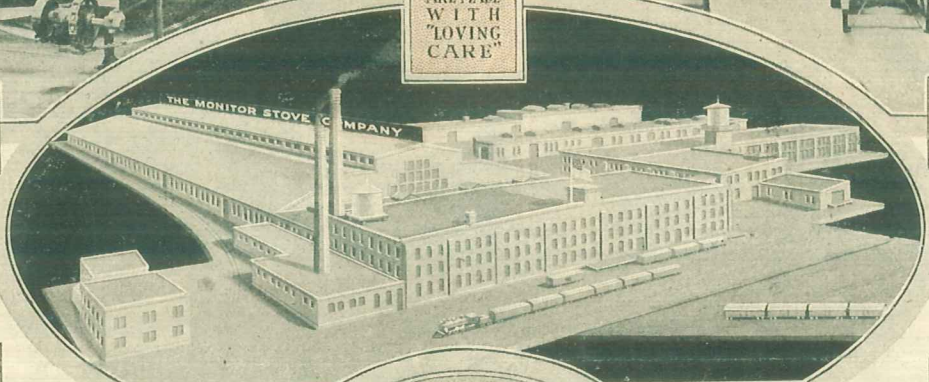


REGISTER
POLISHING
MACHINE

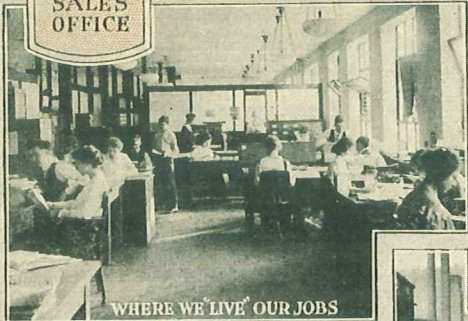


GRINDING
MONITOR
CASTINGS

WHERE
CALORICS
ARE MADE
WITH
"LOVING
CARE"



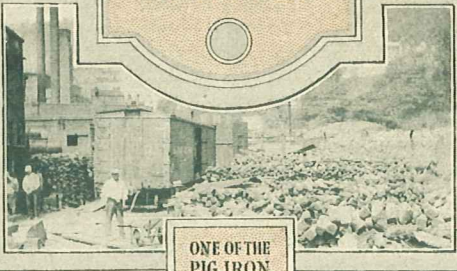
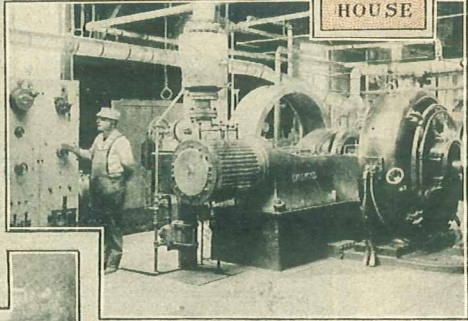
CORNER OF
OUR BUSY
SALES
OFFICE



WHERE WE LIVE OUR JOBS

SCENES
at the
HOME
of the
MONITOR
FAMILY

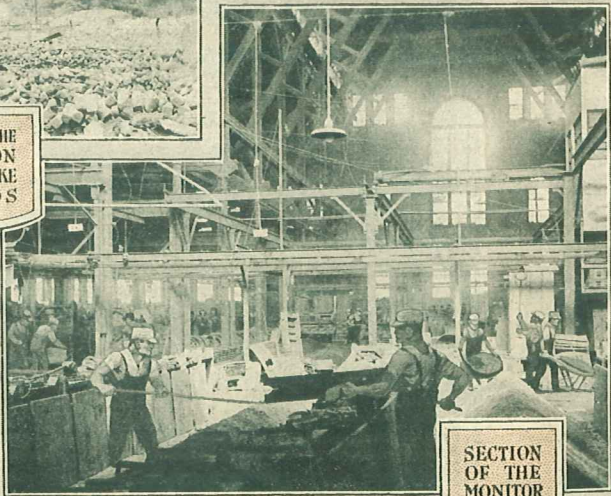
MONITOR
POWER
HOUSE



ONE OF THE
PIG IRON
AND COKE
YARDS



MAKING
CALORIC
CASINGS



SECTION
OF THE
MONITOR
FOUNDRY

**The MONITOR
STOVE COMPANY**
CINCINNATI, OHIO

the MONITOR FAMILY

III



WILLIAM RESOR
disciple of Benjamin Franklin and founder of The Monitor Family in 1819. He was one of the pioneer manufacturers of heating appliances in the United States.

J. G. SCHMIDLAPP
Cincinnati banker who is prominently identified with financial operations of national scope. His interest in the policies and products of The Monitor Family has made possible the perfection of the patented Caloric Pipeless Furnace.



W. H. SCHMIDLAPP
Chairman of the Board of Directors, whose connection with Monitor affairs dates back for many years.



PIPELESS
CALORIC
FURNACE
THE ORIGINAL PATENTED PIPELESS FURNACE



PIONEERS of PIPELESS HEATING



L.D. WOODROUGH
President of The Monitor Family and its guiding spirit. His broad vision, progressive ideas and love for his fellow workers have placed The Monitor Company at the head of a distinctive class of big business institutions.



WILLIAM DOYLE
inventor and designer, whose scientific knowledge and practical experience have enabled Monitor Men to give to the world the patented Caloric Pipeless Furnace.

The Third Annual
Get-Together
of the
Caloric Comfort Club,
a branch of
The Monitor Family.

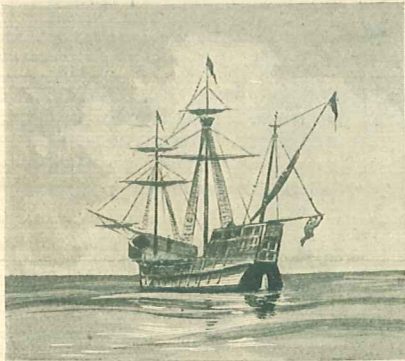
The activities of its members are devoted to the principles of better home heating. Their slogan is: "Furnace Heat for Every Home." Nearly every state in the union is represented in this Club by one or more members.



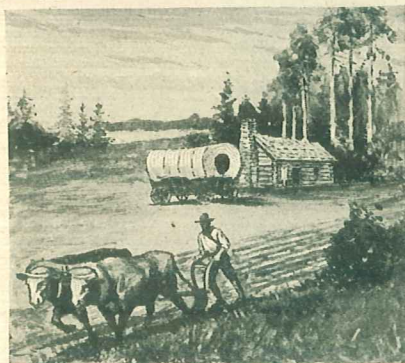
the
OLD
WAY



In use for centuries and considered "good enough" until a better way was found.



Three hundred years after Columbus discovered America, the wind was still the only power used to propel ships.



The early American settlers followed the example set by the Egyptians who plowed with oxen.



Before the railroad, U. S. mail was carried overland on horseback or by stage-coach.

THE progress of the civilized human race can be most directly measured by the changes that have been made in commerce, industry and domestic life. In determining the importance of the great forces, which have made possible this progress, historians have agreed that the wonderful inventions and discoveries of the nineteenth and twentieth centuries have been of the greatest influence in this advance. Harvesting machines have replaced the ancient cradle and scythe; a network of wires has made possible instantaneous communication between far distant points; phonographs afford entertainment and also meet the needs of modern business. Scores of equally important and wonderful inventions have helped to make possible the present highly developed commercial and social organizations.

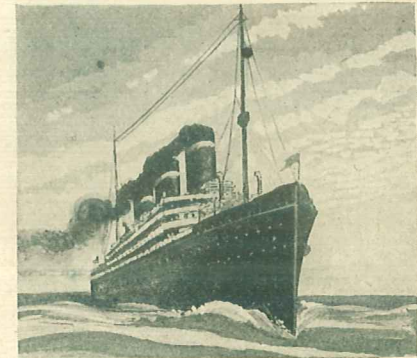
In the home, the changes have been even more revolutionary. For centuries, woman's work had been from sun to sun but now the drudgery of housework is no longer necessary. Electric lighting and water systems, vacuum cleaners, adequate heating systems and hundreds of other labor and money saving appliances have modernized the home and made it a better place to live in.

But important as these inventions have been to the progress of man, practically every one of them met with the most stubborn opposition and discouraging skepticism. History records, on innumerable pages, the misgivings of the public that ridiculed and laughed at the great men whose inventions they soon afterward adopted with pleasure and profit. Stevens was censured for his efforts to propel boats by steam power; Richard Trevethick, father of the locomotive, had a hard fight to overcome the doubtings of his fellow-men; McCormick's first reaper was considered a freak and entirely impractical. Captain John Ericsson, designer of the "Monitor," the first ironclad vessel, was repeatedly told that, "It can't be done." Edison, Selden, the Wright brothers, Maxim, Marconi, Bell and others, achieved the goal of success because they were spurred onward by their

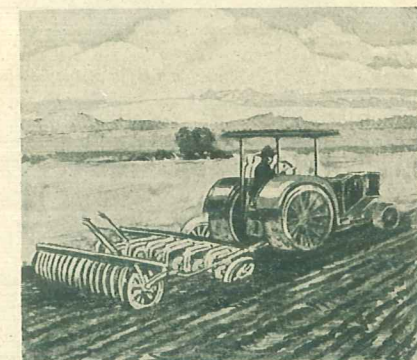
P R O G



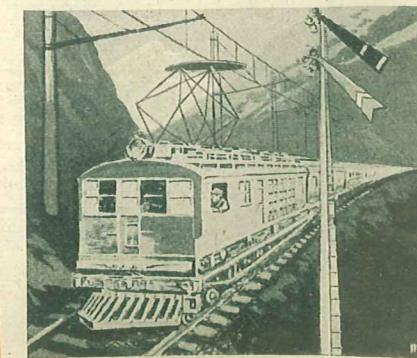
Edison's answer to the command: "Let there be better light."



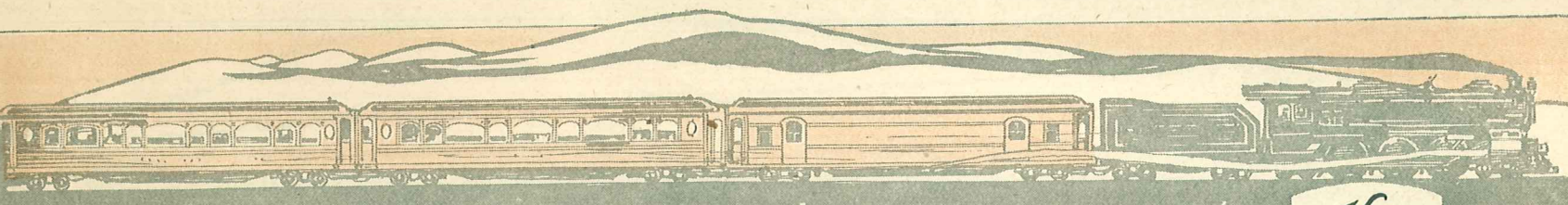
The earliest inventors of the steamboat were ridiculed by people who said, "It can't be done." The "Monitor" was the first successful ironclad vessel built.



The modern farmer is content with nothing less than a tractor plowing outfit.

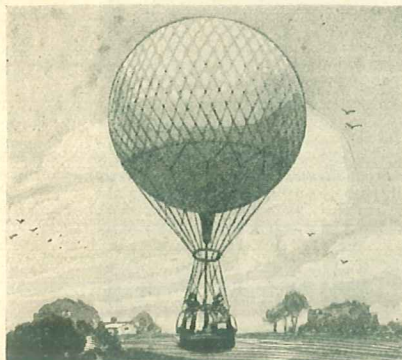


Today the electric express trains whisk our letters from city to city at lightning speed.



the
NEW
WAY

RES S



Invented by Montgolfier brothers of France, in 1783. Their discovery was made possible because the heated air, which they used in filling a linen bag, was lighter than an equal volume of air at a lower temperature.

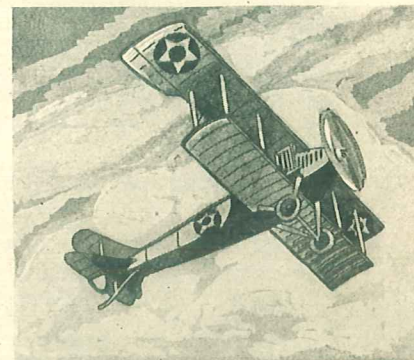


This slow and old-fashioned method of transportation was the "only way" until the modern motor came.

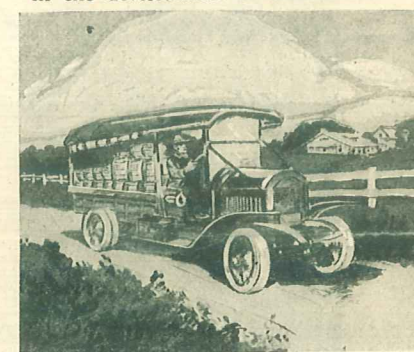
love of duty and the inspiration that comes only from work done in the interests of humanity. Progress has been made possible because these men not only had the genius to conceive but also the courage to overcome the skepticism of their times.

Although we have the experience of many generations to guide us, skepticism is as common today as it was a century or more ago. It is therefore little wonder that the efforts of Monitor Men to educate the public to the use of the Caloric system of heating without pipes and with only one register, should at first have met with doubt and ridicule. But like all other great inventions, the merits of which could not be overlooked or remain unappreciated by the people who profited from their use, the Caloric soon proved its worth. It has been on the market only nine years but during that short period, it has revolutionized the heating and ventilating of homes, churches and business buildings.

The Caloric has marked another step in the progress of the world and is rapidly making possible the achievement of our goal, "Furnace Heat For Every Home."



The airplane represents man's greatest achievement in aerial navigation. Wright brothers of America invented one of the first and most successful machines. Since then, they have taken an important part in the development of aeronautics.

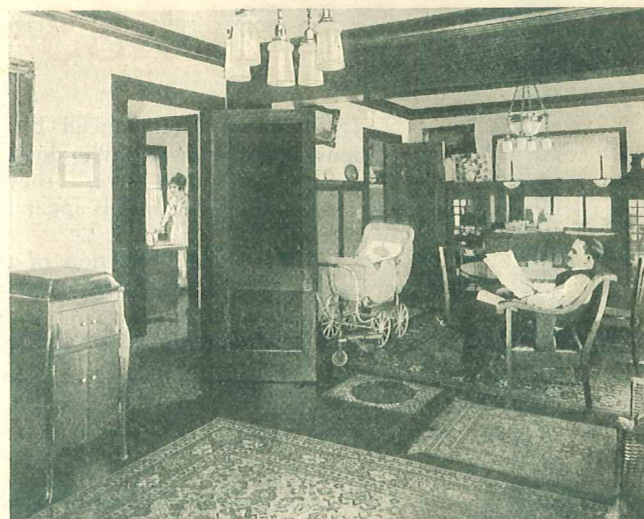


Rapid, economical and up-to-date. Saves time and money in transporting men and materials.



THE STOVE-HEATED HOUSE

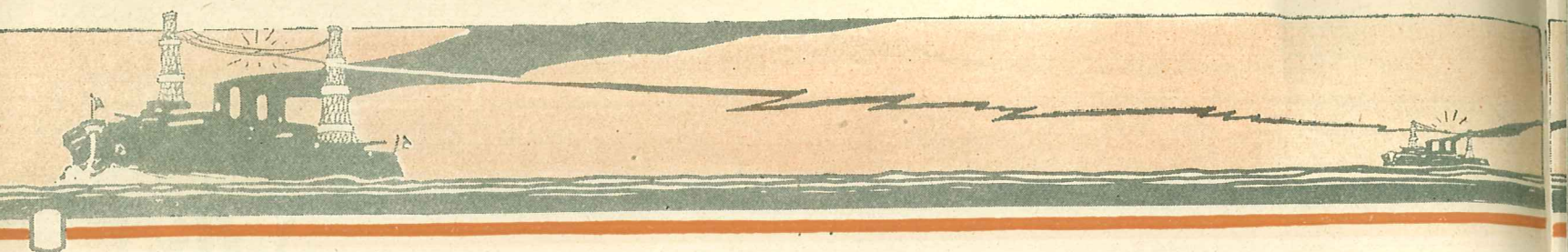
Although fire was discovered and used by primitive man, it has only been in comparatively recent years that any great progress has been made in the perfection of domestic heating appliances. Benjamin Franklin's cast-iron stove was the first great improvement over the open fireplace. It was followed by other types of stoves and heaters including the baseburner, which is the latest development in stove heating. But all of these devices have proved inadequate even though they represent an advance from the picturesque fireplace. Their low heating efficiency, demand for frequent firings and cleaning and the unsanitary conditions which they produce are fast relegating them to the past.



THE CALORIC-HEATED HOME

This picture is reproduced from an actual photograph taken in Mr. O. W. Larson's modern home, Minneapolis, Minn. Note the single Caloric register in the floor, the tidy rooms, comfortable and clean in every particular. The Caloric System of heating conforms to all practical and scientific standards of the present day and meets the requirements of the average building better than any other type of heating plant. It saves fuel and labor by taking the place of a number of stoves and adds to the comfort of user. The Caloric is making thousands of homes better places to live in. It represents the greatest progress that has been made in the science of heating and ventilating.

The MONITOR
STOVE COMPANY
CINCINNATI OHIO



A MESSAGE ON AIR

WIRELESS AND PIPELESS

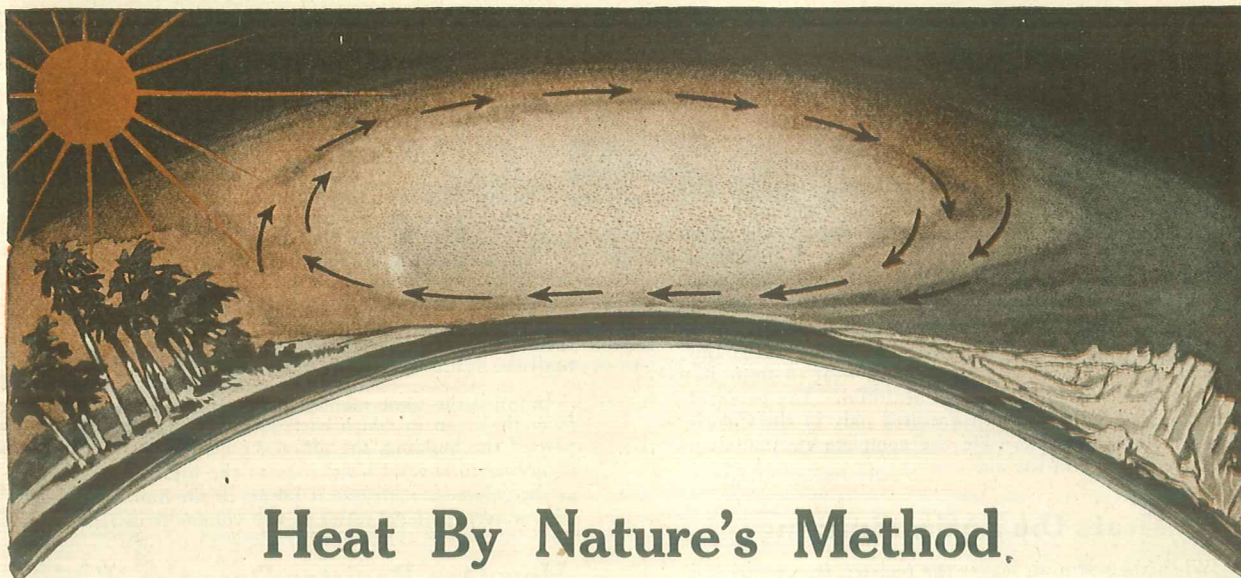
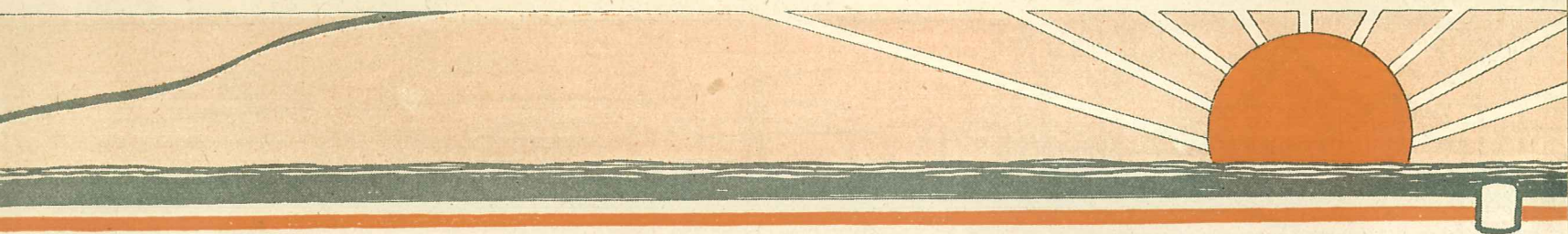
WHEN Marconi announced his invention of the Wireless Telegraph, there were thousands of wisecracks who doubted his sanity. "No man can use the air to take the place of a telegraph wire," they said. Not many years passed, however, before the Italian inventor had perfected his apparatus and was sending messages around the world without the use of wires.

The invention and perfection of the Caloric Pipeless Furnace offers a striking analogy. When The Monitor Stove Company announced to the people of the United States that it had a furnace which would heat their homes more uniformly and economically than they had ever been heated before, and without the use of pipes, there were many people who said that it could not be done.

But today, the message of Caloric Comfort has likewise been heard around the world. Letters from distant Russia and the Philippine Islands, The Argentine and Glorious France, come to us for information about this wonderful system of heating that has been installed in thousands of happy American homes.

Marconi solved the problem of transmitting messages through space by the wireless route. Monitor Men solved the problem of circulating large quantities of moist, warm air through space by the pipeless way. Both have safeguarded the lives of men and property, by making use of relatively simple, natural laws. The air serves as a conductor of the heat generated by each of these utilities and the two inventions are fully covered by patent rights.

The Marconi Wireless Telegraph and the Caloric Pipeless Furnace are making use of the air to accomplish remarkable results for humanity.



The Tropics
where the
Heat that
moves the
air cur-
rents is
generated

The Polar region
where the
air currents
descend and
begin their
return to
the equator

Heat By Nature's Method.

How Nature Circulates the Air

The general circulation of the earth's atmosphere is one of the most interesting of natural phenomena. The vast movement of the air between the equator and the polar regions is due to the fact that the equatorial and polar regions are unequally heated by the sun's rays. Scientists have found that the average difference in the temperatures between the equator and the poles is about 80 degrees Fahrenheit. The effect of this excess heat at the equator is tremendous and results in making the equatorial region the engine that moves the machinery of the general circulation of the earth's atmosphere.

In the tropics, the lower stratum of air expands on being heated and is forced upward by the cooler and denser air from the neighboring temperate zones, thereby establishing a flow toward the equator along the earth's surface, a flow that is maintained by the constant difference in temperatures. This movement of vast bodies of air produces the winds and weather changes. When the equatorial air has reached a great height, it flows off to the north and south, finally reaching the polar regions where it descends and returns along the surface of the earth to the equator.

How Nature Humidifies the Air

Were it not for the humidity in the air, human life would be impossible on earth. It is the moisture in the atmosphere that gives it the balmy, healthful character and nature makes generous provision for getting this moisture into the air on a vast scale.

It has been said that the waters of all the oceans have visited every part of the earth, at some time in the history of the world. The sun evaporates enormous quantities of water which is later condensed and sent down to the earth again as rain, hail or snow. In this manner a continuous circulation of water takes place between the water areas of the earth's surface and the atmosphere. The sun vaporizes the water and the winds blow this vapor from over the seas to the land, where it condenses, is precipitated and returns to the seas through the rivers. The amount and rapidity of the evaporation from the seas and the amount of precipitation on the land depends upon the temperature and the winds.

The Caloric Heats by Nature's Method

A comparison of the Caloric System of Heating with Nature's method of warming the earth's surface shows how closely Monitor Engineers have followed the natural laws that govern the circulation of air currents and the scientific production and distribution of heat.

Just as one sun heats the earth, so the one Caloric register heats an entire home. It represents, on an infinitely smaller scale, the same general conditions that exist in nature. The lower stratum of air expands on being heated and is forced aloft by the cooler and denser air, thus establishing a flow towards the furnace register that is maintained by the constant temperature difference.

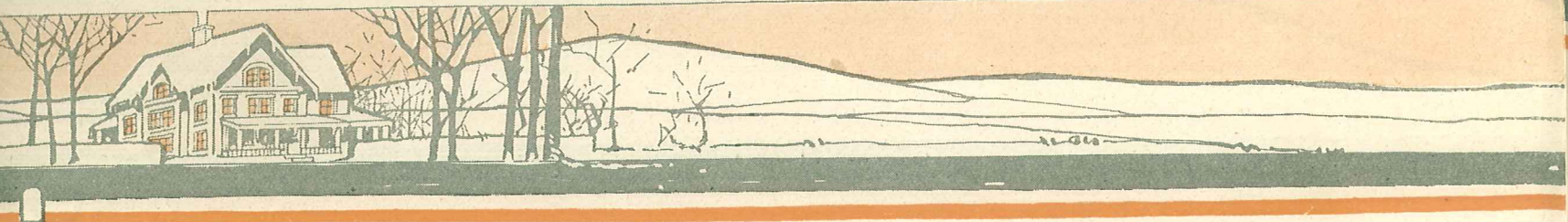
To humidify the atmosphere, nature evaporates, condenses and precipitates the waters of the earth. The moisture that is supplied to the air in this manner keeps it healthful.

The water pan serves as the artificial humidifier in the Caloric Pipeless Furnace. It is properly placed near the point of greatest heat where the evaporation of the water is rapid and continuous.

The moisture added to the warm air makes it healthful and balmy. The danger of warping woodwork and drying out furniture is also overcome by this feature.

The air in Caloric-heated buildings is kept clean and pure as well as properly humidified. The principle of circulation, upon which the operation of the Caloric is based, and its unique mechanical construction, provide for the passage of the return air over super-heated castings with a temperature of as high as 800 degrees. This intense heat, through which the air must pass, acts as a sterilizer. Germs and impurities are in this way removed before the air is re-circulated into the building.

No dust nor gases can escape into the air channels of the Caloric because the fire is confined within iron walls that are tightly sealed. As the air passes through the Caloric furnace, it in no way comes in direct contact with the smoke, gases or dust. This insures a cleanliness in Caloric-heated buildings that is not found in buildings that are heated by other types of warm air furnaces.



Principle of Operation

The Caloric principle of operation is very simple and is based upon the natural law that warm air rises and cold air falls. In the same volume that the warm air is distributed into a building, an equal amount of cold air is drawn into the furnace, where it is re-heated, moistened by the vapor from the two-gallon water pan and then re-circulated through the register. In this manner the constant circulation of properly moistened, warm air is kept up. Just as running water purifies itself, so this circulating warm air, passing through heat of from 300 to 800 degrees, is kept pure and healthful. The patented and original features which are used only in the Caloric construction, make possible the complete re-circulation and sterilization of the air.

Heats the Entire Building

When the warm air leaves the register, it expands and rises naturally to the ceiling, where it is deflected and circulated through the doors or transoms. The cool air from all parts of the building moves at the lowest level towards the register. This circulation of air currents to and from the register tends to equalize the temperature. In the thousands of buildings where Calorics have been installed, the variation of temperature between that in the room or hall where the register is located and that in the other rooms, is not noticeable. *During the coldest weather of the winter of 1917-18, many owners reported temperatures of seventy degrees or more in their kitchens, bathrooms and third floor back rooms.*

How the Heat Travels From Room to Room

The circulation of the air in Caloric-heated buildings may in a measure be compared to the movement of water. Let us imagine that instead of warm air, water is being circulated through the register. This water will flow from the room in which the register is located through the open doors and passage-ways into every part of the building, the level remaining the same in all rooms. As the volume of water increases, the depth becomes greater, until the entire contents of the building is filled.

In much the same manner the warm air is distributed from the room in which the register is placed, to every part of the building, the difference being that warm air, according to natural laws, rises to the highest level, and as the volume is increased it lowers in the building, while with water, the level raises as the volume is increased.

How One Register Does the Work

The Caloric combination register is composed of two sections: the central portion provides for a distribution of the warm air generated by the furnace and the outer section admits the return air to the furnace. By withdrawing the cool air from the building through this outer section, the resistance to the warm air is overcome. This provides space for the rapidly expanding warm air, which circulates in large volume to all portions of the building. A vacuum cannot be created; therefore the warm air fills all the corners from which the cold air is being withdrawn.

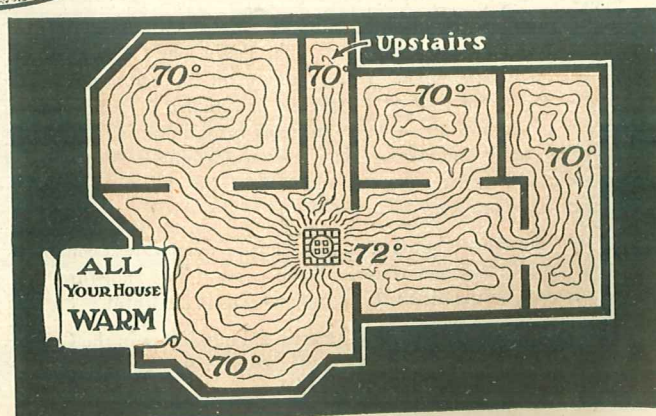
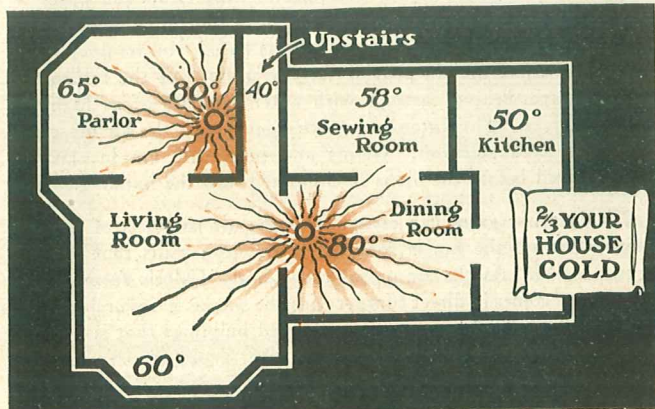
Radiated Heat

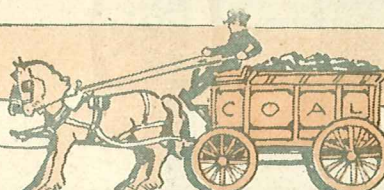
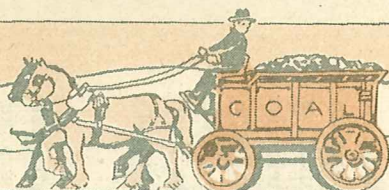
as transmitted by stoves and other inadequate heating arrangements. The house is warmed in limited spots around the heaters only. The upstairs rooms receive practically no heat. Waste of fuel, discomfort and even sickness result from this method of heating.



Circulated Heat

as transmitted by the Caloric System. The entire house is evenly heated by the natural circulation or convection of air currents. Every room, upstairs and down, is kept warm and comfortable. A great saving of fuel, together with increased comfort and convenience, result from this method of heating.





SAVE FUEL

HOW THE CALORIC SAVES FUEL

The Caloric system saves from 35 to 50 per cent of the fuel because:

Only One Fire to Keep.—It centralizes the heating system and thereby eliminates the necessity of keeping more than one fire burning. Many Caloric users are heating entire houses on the same amount or less fuel than their stoves required to heat only a few rooms.

Caloric Castings Correctly Designed.—Caloric castings have a much larger radiating surface than those used in other types of furnaces. This advantage, together with the scientifically proportioned air passages, enables the Caloric to generate and distribute the greatest volume of warm air from the fuel consumed.

Caloric Construction is Practical and Scientific.—Heating engineers and authorities have proven after years of experimenting, that the capacity of a warm air furnace is increased as much as 62% when the heat generated is taken directly off the top of the furnace through one large channel. The Caloric construction is in exact accord with this law of physics, there being little heat loss in the transmission of the warm air from the burning fuel to the building. There is practically no loss of heat by radiation in the basement or walls and no wastage of heat up the chimney, so common and extravagant with other methods of heating.

The Caloric Recirculates the Air.—The fact has been established that a heat loss of approximately 65% is caused in bringing outside air from a temperature of zero to 70 degrees. The Caloric greatly reduces this percentage of loss because it eliminates the necessity of using outside air.

The Caloric principle of heating is based upon the recirculation of air currents and by proper application of this principle it can operate at a great saving in fuel.

Importance of Fuel Economy.—Next to food, fuel is the most necessary article that enters into the commercial, industrial and domestic life of the world. All manufacturing enterprises, transportation systems, public service utilities, home comforts and conveniences, depend upon the beneficent heat that has been stored by nature in the form of coal and wood.

Coal is by far the most widely used fuel and its importance to our national welfare may be readily appreciated by the fact that it furnishes the railroads with a greater amount of freight tonnage than any other commodity. America's annual coal bill is nearly two billion dollars and many millions of dollars worth of coke, wood and other fuels are also consumed every year.

By reducing this enormous fuel consumption, we not only conserve the natural resources of the nation but we also relieve the railroads of the burden of transporting thousands of tons of coal.

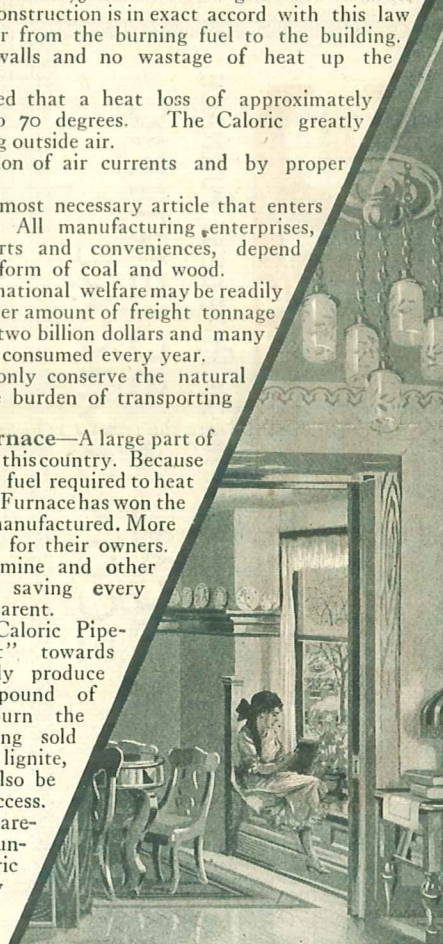
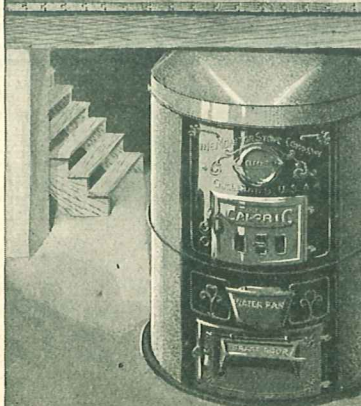
The Caloric is the Most Popular Warm Air Furnace.—A large part of that \$2,000,000,000 coal bill is paid by the home owners of this country. Because of its high efficiency and great economy in the use of the fuel required to heat thousands of these homes, the patented Caloric Pipeless Furnace has won the reputation of being the most popular warm air furnace manufactured. More than 50,000 Calorics are saving thousands of dollars for their owners.

The country is now facing a serious coal famine and other fuels are hard to obtain. The necessity for saving every pound of available fuel is therefore readily apparent.

The Caloric Burns any Fuel.—The Caloric Pipeless Furnace will enable you to "do-your-bit" towards the conservation of coal. It will not only produce a maximum amount of heat for every pound of good coal consumed but it will also burn the cheaper grades of coal that are now being sold for lack of better kinds. Coke, wood, lignite, corn cobs and other native fuels can also be used in the Caloric with remarkable success.

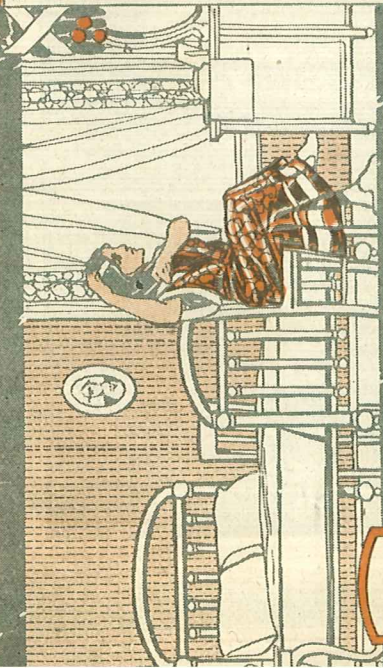
Amount of Fuel Required.—A careful and detailed consideration of hundreds of reports made to us by Caloric users in all parts of the country indicates that the patented Caloric Pipeless Furnace consumes yearly about one ton of soft coal or its equivalent in hard coal, wood, coke and other fuels for each room heated.

This estimate varies with the differences of climate, grades of fuel and condition of the building.



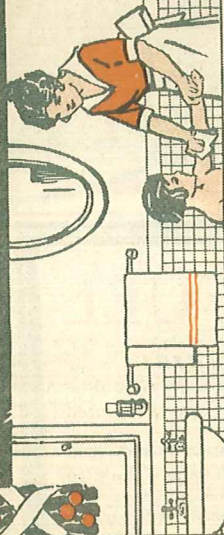
**The MONITOR
STOVE COMPANY**
CINCINNATI - OHIO

BED
ROOM
68°



PIPELESS
CALORIC
FURNACE

THE ORIGINAL PATENTED PIPELESS FURNACE
PRACTICAL ~ SCIENTIFIC
ECONOMICAL



BATH
ROOM
72°

The Caloric combination register, copper oxidized and beautifully finished.
The proper ratio of the warm air outlet to the return air section has been carefully determined after years of tests and experiments.

Wide, strong flange for floor connection. The Caloric register will support a weight of 1,500 pounds.

The return air pipe can be adjusted to any basement height of 6 feet or more.

Absence of angles reduces friction and prevents the pocketing of air. This increases the volume of air that passes in and out of the furnace.

Casing and caps are drawn together by special lugs to make an extremely tight fit. No cellar dust nor ashes can be drawn in through these joints.

This insulating air chamber acts as a positive division between the bodies of warm and return air. This special construction prevents the radiation of heat to the outside casing. The air is constantly circulating through this

RETURN AIR

WARM AIR

RETURN AIR

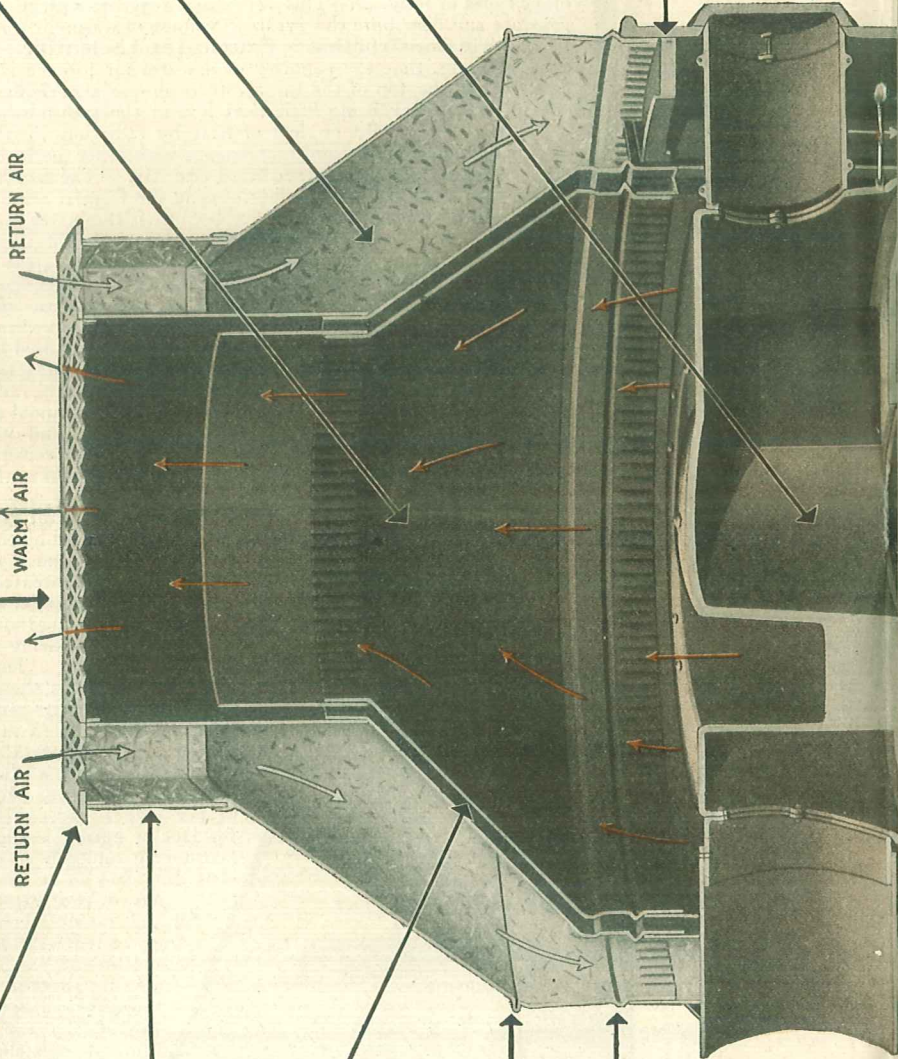
The large, scientifically proportioned air passages of the Caloric give it a greater heating capacity than any other warm air furnace.

Large, straight channel insures an adequate supply of return air, so essential to great capacity and efficiency.

The Caloric radiator is placed directly in the center of the furnace where the greatest volume of heat is generated and distributed through the center of the register. The Caloric exclusive offset construction and straight flush front make possible this important feature.

This patented Caloric division plate makes possible the straight flush front construction. This exclusive feature insures a cool cellar. Imitators dare not copy this design.

Handy cleanout for removal of soot.



sturdy
channel.

The absence of sharp angles in the air and fire travel adds materially to the heating efficiency and saves fuel.

The famous Caloric double-ribbed firepot is made of the best grade pig iron and insured for a period of no less than 5 years by the Monitor Ironclad Guarantee.

The insulating chamber ends at a proper height from the base of the furnace, permitting a free and easy flow of return air to the hot castings.

The sturdy braces and supports make the Caloric the most rigid type. This construction prevents and holds the inner and outer casings an equal distance apart at all times.

The Monitor smoke plate is an added precaution against the leakage of smoke and gas.

Extra large opening permits use of large chunks of coal and wood. Tight fitting feed door prevents escape of smoke and gas.

The Caloric water pan holds two gallons and is properly placed so that the heated castings evaporate the water rapidly. This produces a balmy, moist warm air, conducive to good health. The pan is low and easy to fill.

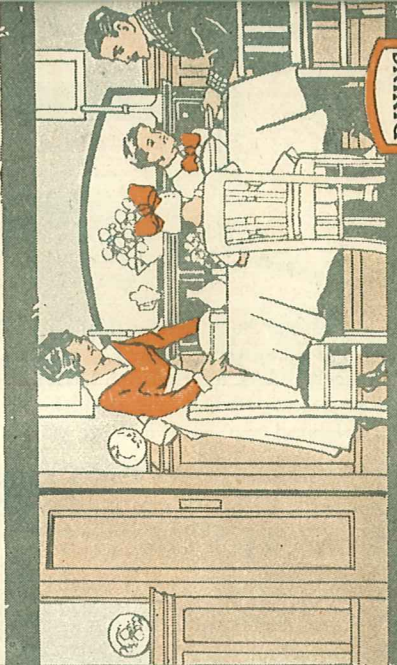
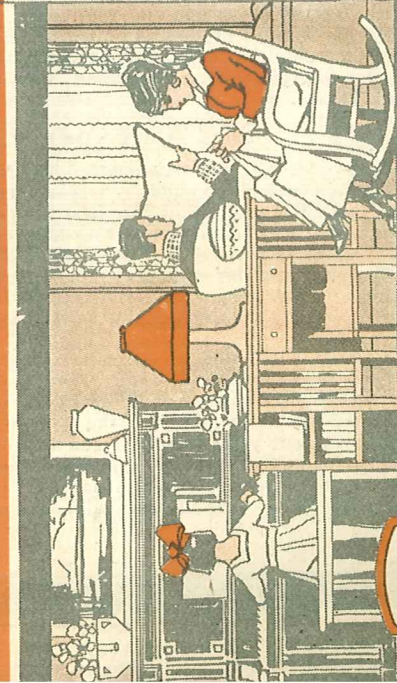
The ashpit door is dust proof and contains an easily regulated damper.

Caloric grates are very durable and readily cleaned. A conveniently located shaker handle does the work.

Roomy ashpit saves labor.

Red and white arrows indicate the movement of air currents through the furnace

MORE THAN 50,000 COMFORTABLE CALORIC-HEATED HOMES

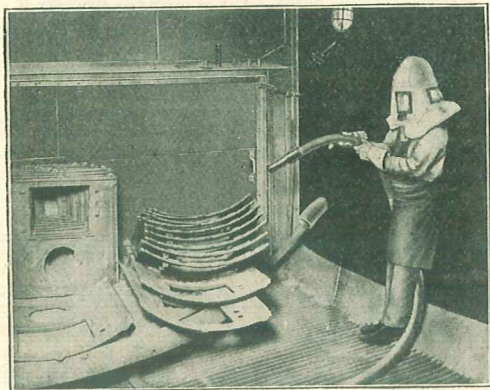


MONITOR MANUFACTURING METHODS

Cleaning Caloric Castings

Caloric castings have become famous because of their velvet finish. Hundreds of users, as well as many Caloric dealers with years of experience in the furnace business, have written letters in which they compliment us upon the production of these smooth, high grade castings.

The mechanical methods which we employ in the perfection of our product are not alone responsible for its superiority. A large measure of the credit is due to the Monitor men whose loving care and intense enthusiasm for their work enable us to make this better product. Visitors who have inspected the Monitor plant marvel at the extreme care and the unusual interest which the men take

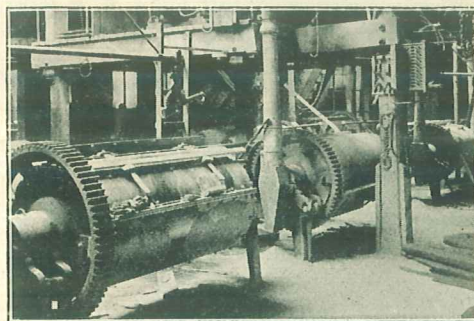


Monitor sand blast room, where Caloric castings are cleaned. Caloric Pipeless Furnaces are made with "loving care."

in their work. It is an easy matter for them to recognize the fact that Monitor men put their hearts, as well as their hands, into their jobs.

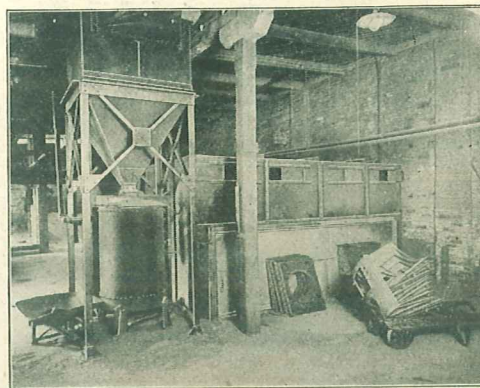
Cleaning castings is not a work over which workmen can become enthusiastic, and yet you will find nowhere in our organization a greater eagerness to do good work than is exhibited by the members of this branch of the factory. The complete mechanical equipment, together with this human interest, makes possible the unequaled Caloric castings.

When the castings go from the foundry to the mill room, over the trolley system, they are covered with bits of sand and clinging metal. In order to remove this material, some of the castings are milled in large, churn-like machines, while others are put into the sand blast room, where hard, flint-shot sand is blown upon them under very high pressure.



A corner in the milling room showing a battery of tumblers.

The Tumbler
In the mill room there is a battery of these churns or tumblers, some of which are very huge machines. The largest of these tumblers are set in heavy concrete foundations, because of the great vibration that results when they are put in operation. One of these tumblers holds as many as thirty-two Caloric radiators. The castings are placed in these tumblers and held securely by means of wooden blocks and malleable-iron, milling stars are then placed in the machines, which are set in motion. The constant friction of these stars against the casting surfaces, wears away the sand and rough parts. This operation continues from one to two and a half hours, depending upon the kind of castings that are being milled.



Outside view of sand blast room. The Monitor sand blast equipment is the most modern in every respect.

The Sand Blast

The Monitor sand blast equipment is the most modern that could be procured. It consists of a room 10x12 feet in size and 7½ feet high. A ball-bearing table, upon which the castings are placed, revolves in this room and enables the operator to clean the castings on one-half of the table, while the other half is being loaded with rough castings. Due to the high pressure under which the sand is expelled from the nozzle in the hose, the operator must wear a hood or mask. The particles of flint sand rebound from the castings at great velocity and would injure the operator if he did not wear this cover. The suction in the room draws air through perforations in the double ceiling. This action keeps the dust below the operator's head and exhausts it through the steel grating which forms the floor. The used sand and the dirt are blown through the grating and elevated to the separator above, where the good, sharp sand is made ready for re-use.

The Original Patented Pipeless Furnace

The Caloric is the Original Patented Pipeless Furnace, the manufacture of which we began nine years ago. It was unlike any other heating plant that had ever been manufactured and although it embodied revolutionary ideas in the science of heating and ventilating, we soon proved that the Caloric was the finished product of proper designing, tested materials and skilled workmanship. Service, efficiency, durability and years of square-dealing were forged into it. The result was that the Caloric became famous over night.

Not An Experiment

The Caloric is not an experiment, hastily put together for the purpose of meeting a demand. It is specially designed and built from the ground up to uniformly heat and ventilate buildings more economically and satisfactorily than they have ever been heated by other systems. There are more than 50,000 installed in homes, churches and business buildings and this number is rapidly increasing.

Not a Pipe Furnace Without Pipes

The Caloric should not be confused with imitations that are merely pipe furnaces with the pipes left off. The Caloric is the first and only furnace scientifically designed and constructed to heat buildings by the method of air circulation without the aid of heat pipes. Monitor engineers have spent years of testing and experimenting to give to the world this remarkable invention, and The Monitor Stove Company is the pioneer in the pipeless furnace industry. There are more patented Caloric Pipeless Furnaces in use than all imitations combined.

Easily Regulated

By means of a very simple device called the Caloric Heat Regulator, the desired temperature may be maintained in the building. This Regulator is placed on the wall of the room above the furnace and connected to the dampers on the smoke pipe and draft door. This eliminates the necessity of going into the basement except for the purpose of adding fuel and taking out ashes.

Heats Quickly

The Caloric Pipeless Furnace gives immediate results. Owing to its original and patented construction, the heat begins to circulate from its one register as soon as the fire is lighted. As the warm air rises from the central portion of the register, the cold air is automatically drawn into the outer channel, where it circulates between insulated walls to the hot castings of the furnace. This process is so simple and direct that the average building in which a Caloric is installed can be thoroughly heated in cold weather in less than one hour's time.



L. H. Snobble's home, Ionia, Mich. Note the conveniently located heat regulator on wall.

Only the Best Materials Used

New pig iron is used in the manufacture of all Caloric castings. *We do not use scrap iron* in the mixture from which Caloric castings are poured. The inner casings are manufactured of special rust-resisting, copper-bearing steel, and the outer casing is of heavy gauge galvanized sheet-iron.

Every bit of the material that goes into the manufacture of Calorics is carefully and thoroughly tested. Our large purchasing power enables us to get the best materials that the market affords and our rigid system of inspection protects our customers against defects.

The Caloric Combination Register



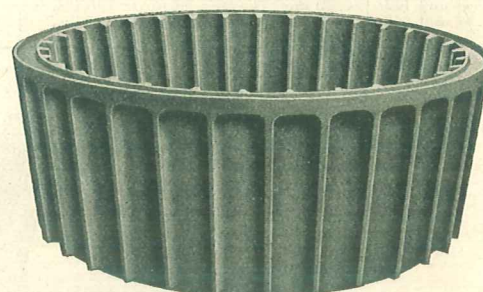
This is the only register used with the Caloric Pipeless Furnace system. It is a combination cold air intake and warm air outlet. The warm air rises through the circular inside portion direct from the furnace castings. The other section admits the return air to the insulated outer castings where it is drawn to the bottom of the furnace. There it comes in contact with the fire and hot furnace castings, is reheated and rises through the register to recirculate throughout the building.

The Caloric register is not only scientifically designed but it is also ornamental. It is made of heavily reinforced cast iron parts that are skillfully fitted together. Thorough tests and experiments have proved that the Caloric register will support a weight of more than 1,500 pounds. The cast iron is heavily copper-plated, oxidized and lacquered. This process makes it very durable and beautiful. When the furnace is not in use, the register can be covered with a rug.

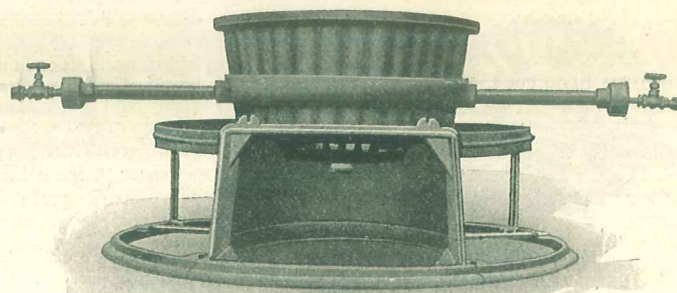
The Caloric Double-Ribbed Firepot

The Caloric double-ribbed, one piece, cast iron firepot is the heaviest that has ever been put into a furnace of this type. Its double-ribbed construction gives it wonderful strength and durability. The sides slope at just the right pitch to keep them clean and free of clinkers. This feature prevents burning out, cracking or breaking of the firepot and also makes it very economical in the use of fuel. When soft coal is burned in the Caloric, the ribbed construction permits the air to circulate around the bed of live coals and the volatile gases are thoroughly mixed with the oxygen and burned before they can escape, thereby adding to the efficiency of the furnace.

Only the very best grade of new pig iron is used in the manufacture of Caloric firepots and every one that leaves our factory is covered by our five-year Monitor Ironclad Guarantee.



The Caloric Gas Firepot



Caloric gas firepot set in position, casings removed.

Natural Gas has often been referred to as the ideal fuel. It is clean, cheap, convenient and in all except the most severe weather, supplies enough heat to meet the requirements of warm air heating. This fuel is used extensively for domestic heating purposes in Indiana, Kansas, Kentucky, New York, Ohio, Oklahoma, Pennsylvania and West Virginia. It is also used to a limited extent in Alabama, Arkansas, California, Illinois, Louisiana, Missouri and Texas.

In order to enable Caloric purchasers, who live in localities where natural gas is plentiful, to benefit from the use of this fuel, we designed and marketed the Caloric Gas Firepot in which gas, coal, or other fuels can be burned either separately or in combination. The most successful results are secured from the use of natural gas when it is burned in a combination firepot of this type. During moderately cold weather the gas can be used alone, but when the severe weather comes, coal or other fuel should be used alone or in combination. The gas fire may be used to ignite the coal.

The Caloric Gas Firepot is made in two sections and molded in a corrugated pattern. Only pure pig iron is used in casting these firepots and the famous Monitor Ironclad Five-Year Guarantee is issued to every purchaser. Each Caloric firepot is thoroughly tested and carefully mounted by an expert.

The burner is located in the lower section of the firepot and is drilled with the ports down so that the flame is thrown to the center of the pot. This construction also prevents the clogging of the burner. When the mixture of gas and air is properly regulated, the fire burns with a blue flame. If the gas supply is turned on full, the No. 48 and No. 148 firepots burn about 85 cubic feet of gas per hour and the No. 43, No. 143, No. 59 and No. 159 burn proportionately more or less.

Made in two styles and three sizes. See the nearest Caloric dealer or write to us for information concerning the one to meet your requirements.

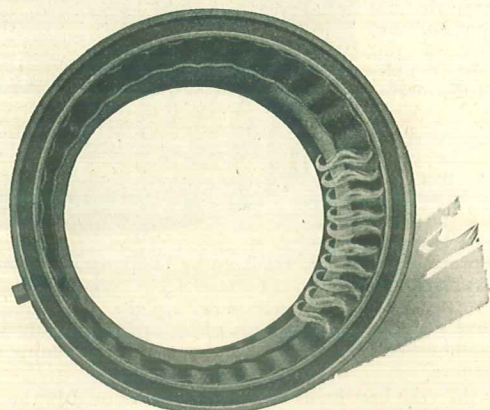
FURNACE HEAT for EVERY HOME

The fittings necessary for the installation of the Caloric Gas Firepot are included with the shipment. However, the equipment necessary to make the connection with the main gas supply must be furnished by the purchaser. Shipments of

Caloric Gas Firepots consist of the following:

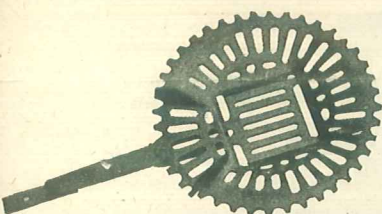
Specifications of the Caloric Gas Firepot

Furnace No.	Inside Diameter	Depth	Approximate Weights	Size Supply Pipe	Drill Hole in Burner
43 and 143	20 in.	10½ in.	130 lbs.	1½ in.	11-64 in.
48 and 148	24 in.	12 in.	185 lbs.	1½ in.	11-64 in.
59 and 159	28 in.	12 in.	220 lbs.	1½ in.	11-64 in.



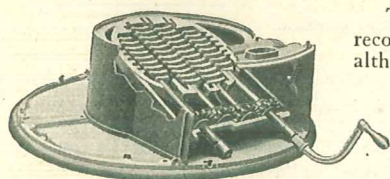
Looking down into the firepot. Ports are drilled in the under side of the gas ring to prevent clogging.

The Caloric Draw-Center Grate



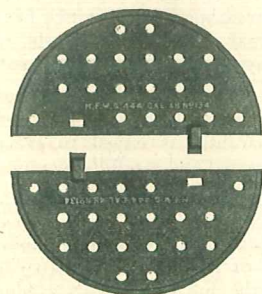
The Caloric draw-center or flat grate has proved to be one of the most popular grates ever used in a warm air furnace. It is built on a very practical design and one that is recommended by heating and ventilating experts. This grate is made in two sections of heavy castings and consists of the grate proper and the draw-center piece which slides into place. The entire grate is mounted on three rollers, thereby enabling the operator to shake the fire with a minimum of labor. The draw-center feature provides a simple arrangement for cleaning the grate.

The Caloric Triangular Grate



The triangular grate is especially recommended for use with hard coal, although it is also adapted to the burning of soft coal and coke. The triangular construction of this grate enables the operator to change the surfaces often and thereby greatly prolong its life. In fact, this grate is really three-in-one. The cogs are well protected and easily turned by means of a crank. A very simple release permits the lowering of the grate for easy cleaning. Only the very best materials are used in Caloric grates and all parts are carefully fitted.

The Caloric Wood-Burning Grate



In many sections of the country wood is plentiful and offers a very satisfactory and economical fuel for use in the Caloric Pipeless Furnace. Thousands of Caloric users depend entirely upon wood as fuel and many others use it in combination with coal. These people have secured splendid results by using this grate. The wood-burning grate is made in two pieces and can be easily inserted through the large feed door. It fits over the top of either the Caloric draw-center or triangular grates.

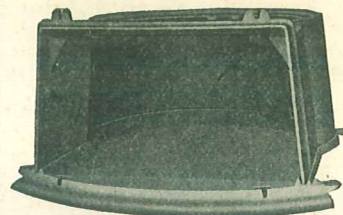
The Caloric wood-burning grate is shipped as an extra. The three types of Caloric grates illustrated on this page enable Caloric Pipeless Furnace owners to burn any grade of coal

or coke and all kinds of wood. Corn cobs are also used to good advantage in the corn belt. Lignite and other native fuels likewise furnish satisfactory heat for many Caloric users.

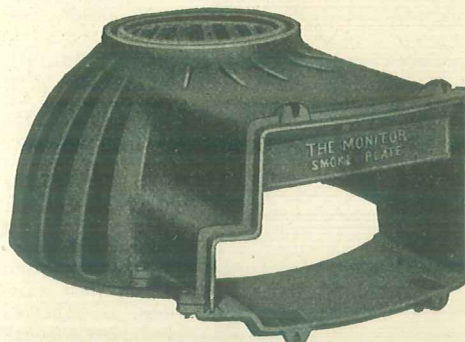
The Caloric Ash-Pit

The Caloric ash-pit is roomy and allows ample space for the ashes. It is not necessary to remove the ashes every time the fire is shaken down.

The ash-pit door is large and makes the removal of the ashes an easy task. The draft door fits snugly into place and is operated by the regulator from the floor above. No matter how wide the draft door is opened, it cannot fall back out of control. This feature can be readily appreciated by any one who has operated other furnaces equipped with draft doors that fall back and permit the fire to burn too rapidly.



Caloric Feed Section



This is a heavy dome-shaped casting, corrugated to add strength and to increase the heat radiating surface. The smoke plate serves to keep back the smoke and flame when the feed door is opened for firing.

This feed section is one of the units which has made possible the original flush-front construction of the Caloric.

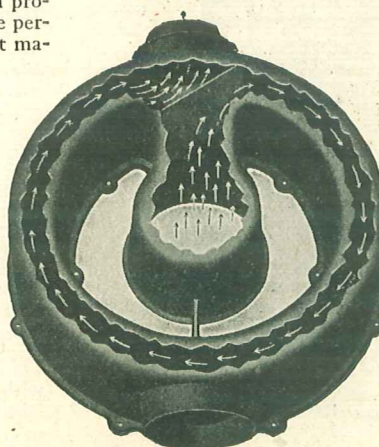
Sizes of flues which have been found by experience to give excellent results

TOTAL CONTENTS OF BUILDING	TILE FLUES Standard Sizes Square and Rectangular Outside Dimensions in Inches		TILE FLUES Standard Sizes Round Inside Dimensions in Inches		BRICK FLUES Inside Dimensions in Inches	
	Hard Coal	Soft Coal	Hard Coal	Soft Coal	Hard Coal	Soft Coal
Cubic Feet of Space						
10,000 to 20,000	8½ x 8½	8½ x 13	8	10	8x8	8x12
25,000 to 50,000	8½ x 13	13 x 13	10	12	8x12	12x12
60,000 to 100,000	13 x 13	14 x 14	12	16	12x12	12x16
100,000 to 150,000	18 x 18	20 x 20	16	20	16x16	20x20

The Caloric Radiator

The radiator used in the Caloric Pipeless Furnace is of the circulating type. It is cast from the same pure pig iron used in all other Caloric castings. This gives it the lasting qualities so necessary to the long life of a furnace. The hot gases enter at the front and are divided into two bodies that pass to each side of the radiator. In this way the heat is extracted from these gases before they escape into the flue. In the Caloric hard coal radiator the gases circulate the entire circumference before being expelled. The Caloric radiator is easy to clean through the large "cleanout" opening at the front.

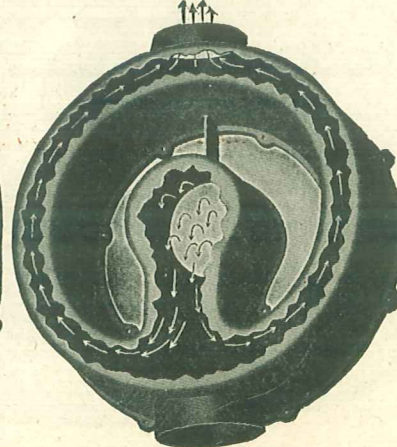
Smoke Outlet



Clean Out

Hard Coal Radiator

Smoke Outlet



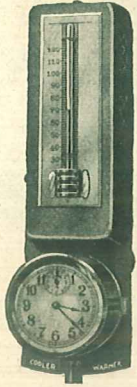
Clean Out

Soft Coal Radiator

The Caloric Water Coil

Every woman appreciates the value of hot water as an aid to better housekeeping. It is a necessity in every home and where no provision is made for a supply of running hot water, the housewife must resort to the use of make-shift methods, such as the use of wash boilers, reservoirs and other inefficient substitutes.

The owner of a Caloric Pipeless Furnace whose home is equipped with a water system, may obtain an adequate supply of hot running water by the use of a Caloric water coil. This simple attachment is placed in the furnace and furnishes a supply of piping hot water instantaneously. No extra fuel is required to heat the water in this manner. The Caloric water coil is shipped as extra equipment.



Automatic Heat Regulator.

Automatic Heat Regulator

By the use of a thermostat or heat regulator, the temperature in a Caloric-heated building can be controlled automatically. The construction of the Caloric dampers permits the use of any of the standard makes of thermostats and many Caloric users have equipped their furnaces with this device. The thermostat is shipped as extra equipment.

The Caloric Deflector

(Patent applied for)

The Caloric deflector has been designed to meet unusual conditions found in buildings which are practically divided into two sections. Frequently the door, which connects the parts of such structures, is not large enough to permit the free passage of warm air to the portions of the building that are the greatest distance from the register. In many cases of this kind, the Caloric deflector provides an efficient means of diverting the heat to both sides of the building.

The Caloric deflector is made in three sizes and is furnished as extra equipment.

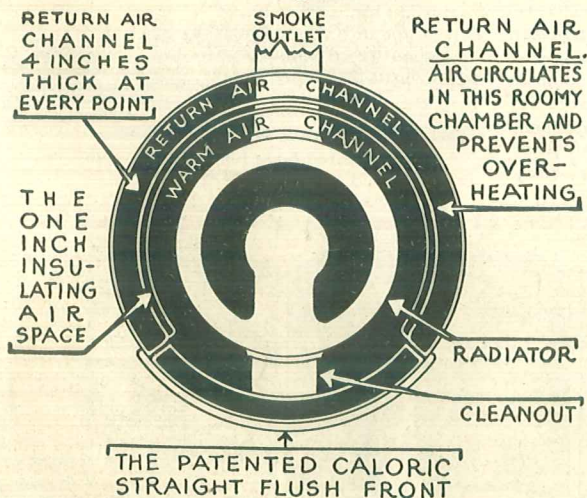
Durability

The patented Caloric Pipeless Furnace is built for permanence. With ordinary care, it should render service for twenty years. If during this period it becomes necessary to replace any of the parts, they may be easily obtained from the nearest Caloric dealer, direct from our factory, or one of the numerous Monitor distributing points.

The Patented Caloric Triple Casing and Straight Flush Front

This original construction has enabled Monitor engineers to produce a furnace in which the air channels are scientifically proportioned. Note in Illustration "A," that the heating plant is surrounded by air channels of uniform size and located directly in the center of the casings. This arrangement permits the free and unobstructed circulation of air currents and also prevents the radiation of excess heat to the front. This explains why the Caloric does not overheat the cellar.

Cross sectional view of Caloric looking down from the register.



The one-inch insulating air space is uniform in thickness. It is constructed of two sheets of rust-resisting steel held firmly in position. The air circulates continuously in this space and thereby insulates the return air channel from the warm air chamber. This construction is somewhat similar to that used in the vacuum bottle. If only one sheet of steel were used, the return air would be heated prematurely and the circulation would be impaired. Such trouble is often experienced in imitations.

The Caloric Comes Complete

The price of the Caloric includes the equipment necessary for its installation. It comes complete with register, casings, cement, poker, chains and pulleys. In comparing the Caloric with other furnaces this should be carefully considered.

Every Caloric Is Thoroughly Inspected and Tested

Every Caloric Pipeless Furnace that is shipped from the Monitor factory is thoroughly tested and its capacity determined. All materials are analyzed by experts, and the furnace is mounted so as to insure castings and sheet metal that will properly fit when the Caloric is being installed. The rigid inspection which is given every piece of material entering into its manufacture, insures a product that can be shipped anywhere, and, when properly installed, be made to fulfill the mission for which it is intended.

The Caloric Is Easy to Install

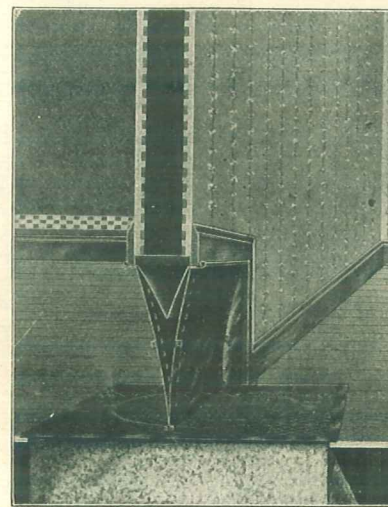
Whether the Caloric is placed in an old or new building, it can be very easily installed in a short time and at a small expense.

Size of Basement Necessary

The largest sized Caloric can be carried through an ordinary door because it is shipped in unassembled or "knocked-down" form.

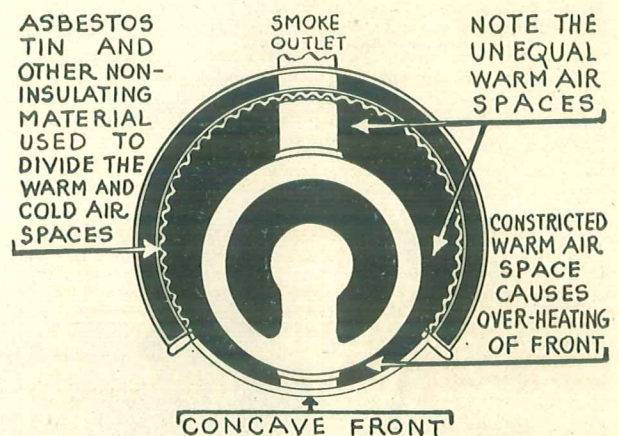
A cellar 6 feet square and 6 feet deep will take care of the largest Caloric and a little additional space can be provided for the fuel bin. Where no basement has been provided, a pit large enough to accommodate the Caloric and a fuel bin will serve the purpose.

The Caloric is shipped with an adjustable casing that can be installed in any basement from 6 to 8 feet high. For basements of greater height an extra size casing can be furnished.



The Caloric Deflector.

Cross sectional view of imitation looking down from the register



Contrast this construction used by imitators with the patented Caloric design. Note the unequal space in the warm air chamber which impairs the circulation and causes the front to over-heat, thereby radiating unnecessary heat into the cellar. The heat generating plant is not placed in the center of the casings where it should be in order to produce a uniform and even circulation of air currents.

FURNACE HEAT *for* EVERY HOME

No Remodeling of House Necessary

When the Caloric is installed it is not necessary to employ high-priced carpenters and masons because there are no expensive pipes to install and no walls or floors to be torn up. The average building in which the Caloric is installed requires merely the cutting of one hole in the floor, to provide for the complete installation. There are, however, a few types of buildings the construction of which makes advisable the use of a few auxiliaries to aid the circulation. In such cases a grill or ceiling register can be installed at small expense and trouble.

Also Best for New Buildings

The Caloric can also be placed in new buildings with less trouble and expense than any other type of furnace manufactured.

Size of Chimney Recommended

The chimneys found in most buildings can be satisfactorily used with the Caloric system. The chimney should be free from obstructions and of the proper height. The Monitor Engineering Department will give expert advice on this subject to all who make inquiry. The following sizes are recommended to give the best results:

No.	Inside Measurements	No.	Inside Measurements
43 (soft coal)...	8-inch x 12-inch	148 (hard coal)...	8-inch x 8-inch
143 (hard coal)...	8-inch x 8-inch	59 (soft coal)...	12-inch x 12-inch
48 (soft coal)...	8-inch x 12-inch	159 (hard coal)...	8-inch x 12-inch

Caloric Safety

The Caloric Pipeless Furnace is a safe heating system because no heated part can come in contact with the inflammable materials of the buildings where Calorics are installed. The point at which the outer casing touches the floor is insulated from the warm air passages of the furnace by the large return air chamber, which prevents the radiation of heat to the wood. This is a positive protection and the danger of fire from this cause, so common to other types of furnaces, is entirely overcome in the Caloric construction. There are no heat pipes in the walls of Caloric-heated buildings and consequently the opportunity for fires to originate from this frequent cause is entirely eliminated.

The Caloric Does Not Overheat the Cellar



Cellar under home of H. A. Varner, Enola, Neb.
Preserves are kept close to the Caloric
without danger of spoiling.

four-inch return air space, which encircles the entire furnace, keeps this outside casing cool at all times. The only heat that is radiated into the cellar comes from the smoke pipe and this is sufficient to keep the temperature of the basement above freezing.

Fruits, vegetables and other perishable products can be stored close to the Caloric furnace without danger of spoilage. This is a big advantage appreciated by every homeowner who must keep food-stuffs in the basement.

The patented Caloric insulating air chamber and the straight, flush-front prevent the radiation of heat to the outside casing. The

Caloric Comforts and Conveniences of Home



There is an old saying that "Whatever lessens woman's work benefits the race." By saving the time and energy of thousands of housekeepers the Caloric has proved a benefit to all mankind. In homes where Calorics are installed, the housewives have found more time and energy left for reading and recreation after the day's work is done. They have saved

countless steps and operations ordinarily required to keep numerous stoves burning and the house tidy. The Caloric supplies hot, running water for kitchen and bath, makes it handy for drying clothes in bad weather, furnishes moist, warm-air for raising bread and proves useful in hundreds of other ways.

Caloric Adaptability

The Caloric Pipeless Furnace is adapted to the widest variety of buildings. It is satisfactorily heating from one to eighteen rooms and as many as three stories, from its one register.

No Building Too Old

No building is too old for the Caloric Pipeless Furnace. Installations have been made in houses constructed of rough hewn timbers which have been built for almost a century. The ease with which it has been installed has made it the most popular type of heating system for old buildings.



The 99-year-old home of W. L. Cropper, near
Burlington, Ky., in which a Caloric is installed.

Caloric Church In- stallations

The Caloric is especially well adapted to church heating and today hundreds of churches in all sections of the country are Caloric-heated. We have published a booklet containing testimonials from many churches and ministers, by whom the Caloric is highly recommended.



Epworth M. E. Church, South, Concord, N. C.

Caloric Heat for Farm Homes

There are many reasons why the Caloric is the choice of so many American farmers. It is particularly well adapted to the requirements of the average farm home and because of its unique construction, has placed the convenience of a safe, sanitary and healthful furnace heat within the reach

of these folks who fully appreciate its remarkable qualities. The farm home must have a cool cellar so that the perishable products stored there will not be spoiled. Furthermore, the average farm home is not constructed along lines that



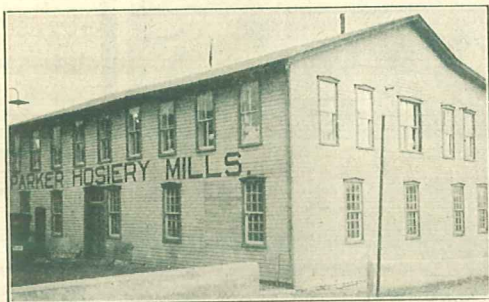
Caloric-heated farm home of Geo. Johnson,
Lakeview, Mich.

JOIN the CALORIC COMFORT CLUB

permit the installation of furnaces requiring a net work of pipes and registers. The Caloric, with only one register and no pipes, its insulated casings, large feed door, properly placed water pan and its patented features, has proved to be the best warm air furnace for farm homes.

Caloric System of Heating for Business Buildings

Hundreds of successful Caloric installations have been made in stores, factories and other business buildings. Due to its original construction, the Caloric has proved a safe and economical system for buildings of this character. It requires very small space and reduces the fire risk to a minimum. No valuable floor room is necessary and stocks of goods may be stored in the basement without fear of damage. We have published a booklet containing a large number of testimonials from business men who are using Caloric Pipeless Furnaces.



Two Calorics keep the Parker Hosiery Mills, Frostburg, Md., warm in the coldest weather.

Investigated—Then Bought Caloric



Owl Drug Co., Osgood, Ind.

My store is 25 feet by 125 feet, two stories. Yours very truly,
THE OWL DRUG STORE, E. M. Dopp, Prop.

The Caloric System Is Healthful and Sanitary

The Caloric is a very sanitary furnace. No dirt nor dust can come through the register because the heat from the Caloric is generated directly from the hot castings and circulates by nature's method through the register. All castings are air-tight and there are no leaky joints or pipes to take up the dust and gas produced in the firebox. Curtains, draperies and other fabrics that are easily soiled, remain fresh and clean for a remarkably long time in Caloric-heated homes.

Many physicians use and recommend the Caloric as a healthful and sanitary heating system. Our booklet "Healthful Heat" contains many doctors' testimonials.

The Caloric Supplies Moist, Warm Air

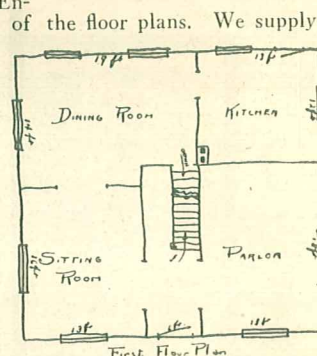
By means of the properly located water pan, the warm air is kept pure and healthful and the proper amount of moisture is insured. The heat of the furnace vaporizes the water and sends it up in just the right quantities, providing a balmy atmosphere. This humidifier also eliminates the danger of drying out furniture and warping woodwork.

Monitor Engineering Service and Guarantee

You may readily determine whether or not your building can be heated with the Caloric Pipeless Furnace by sending our Engineering Department a rough sketch of the floor plans. We supply special blanks for your convenience in making a pencil sketch.



Years of experience in pipeless heating enables our Engineering Department to render expert service.



A pencil sketch of the floor plan of your building will enable our engineers to solve your heating problem.

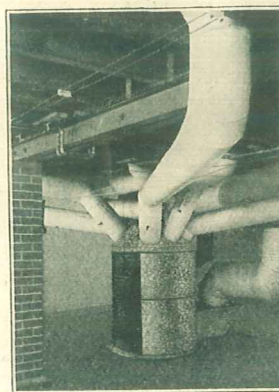
The Monitor Engineering Department never recommends the installation of a patented Caloric Pipeless Furnace until it has definitely determined the adaptability of the Caloric system to the requirements of the building to be heated. After our recommendation is made and accepted, we issue our written Monitor Ironclad Guarantee, which insures every purchaser of an evenly and economically heated building.

Reasonable Cost

The reasonable cost of the patented Caloric Pipeless Furnace has made it the most popular heating device of the age. The original, patented construction and the "loving care" used in its manufacture, place the Caloric in a class by itself.

Figured on the equitable basis of service and satisfaction rendered, the Caloric gives greater value for less money than any other heating appliance.

Its complete cost of installation and maintenance, in money and labor, is much less than a number of stoves required to heat the same volume of space. In addition, the comfort and convenience derived from the Caloric, is worth many times its purchase price. Thousands of Caloric users have paid the first cost of their furnaces through the saving of fuel alone.



The Caloric dispenses with this wasteful, octopus-like arrangement. You save the cost of these heat pipes, as well as the heat they waste.

The patented Caloric Pipeless Furnace can be installed at less expense than any other type of warm air furnace. When you purchase a Caloric, you save the cost of many unnecessary pipes and registers, as well as the extra hours of labor required to install pipe systems. By the elimination of these labor and material costs, we have been able to give Caloric purchasers a better product for less money. Our tremendous production (we manufacture more warm-air furnaces than any other plant) enables us to reduce the cost of manufacture to a minimum.

The price of the patented Caloric Pipeless Furnace should not be confused with that of imitations. For every dollar that the Caloric price exceeds the price of an inferior make, the Caloric purchaser is insured of many times the difference in extra value. A comparison of Caloric castings, casings, design, guarantee and the engineering service that we render will readily convince the most exacting buyer of Caloric superiority.

Remember—that although the Caloric Furnace was not designed to meet a price, it is sold at a price and terms that are within the reach of all.

STYLE	SIZE	Serial Number of Furnace	Shipping Weight Flat Grate Furnace (Pounds)	Inside Diameter of Fire Pot (Inches)	Height of Casings (Feet)	Diameter of Casings (Inches)	Height of Furnace Without Casings (Inches)	Dimensions of Feed Door (Inches)	Dimensions of Register (Inches)	Diameter of Smoke Pipe (Inches)	Size of Ash-Pit Door (Inches)	Capacity of Furnace (Cubic Feet)	Approximate Number of Rooms Heated
Flat Grate Furnace	Small.....	43	1010	20	6 to 8	43	46	9 x12	24x29	8	10 7/8x16	8,000 to 15,000	5 to 7
	Medium.....	48	1300	24	6 to 8	48	49	10 5/8x13	32x32	9	11 3/8x19 3/4	15,000 to 28,000	7 to 10
	Large.....	59	1740	28	6 to 8	59	51	10 5/8x13	40x40	10	11 3/8x22	28,000 to 45,000	10 to 18
Triangular Grate Furnace	Small.....	143	1050	20	6 to 8	43	46	9 x12	24x29	8	10 7/8x16	8,000 to 15,000	5 to 7
	Medium.....	148	1360	24	6 to 8	48	49	10 5/8x13	32x32	9	11 3/8x19 3/4	15,000 to 28,000	7 to 10
	Large.....	159	1810	28	6 to 8	59	51	10 5/8x13	40x40	10	11 3/8x22	28,000 to 45,000	10 to 18

Our ratings are very conservatively estimated and if all conditions that affect the regulation of heat in the building are taken into account, there should be no difficulty in determining the proper size Caloric for every installation. If there is any doubt as to the selection of the proper size Caloric Furnace for your building, you are urged to communicate with the Monitor Engineering Department. If you find it necessary to write to us, send a pencil sketch of the plan of your building and we will submit a complete report recommending the best location for the Caloric Pipeless Furnace and giving any additional information you desire.

**The MONITOR
STOVE COMPANY**
CINCINNATI - OHIO

FURNACE HEAT *for* EVERY HOME



Mr. Lamb, Lancaster, Ohio, R.F.D. 7, kept his 10-room home warm during the winter of 1917-18 on only six tons of coal.

"Mrs. Lamb especially appreciated the cleanliness of the Caloric."



Caloric Comfort

Mr. Irvin Lamb, prominent and prosperous farmer of Fairfield County, Ohio, has one rule in buying equipment for his farm and home, which he always follows: He buys the best of everything as a matter of economy. When he was ready to install a heating system in his home, he naturally selected the Caloric. In a letter to us, he tells what he thinks of this modern furnace.

Lancaster, Ohio, R. F. D. No. 7,
April 18, 1918.

The Monitor Stove Company,
Cincinnati, Ohio.

Gentlemen:

The comfort the Caloric has added to our ten-room house the last winter is not easily described. There are so many advantages I hardly know which to mention first.

These have come to us at such a low cost that I blame myself for not installing it years ago. All winter, the coldest Central Ohio has had during my lifetime, we burned only six tons of soft coal to keep us warm through all the house. In the severest weather we fired the furnace three times a day; in moderate weather only twice.

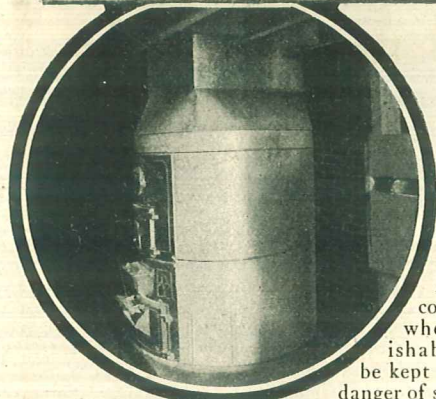
The fire kept perfectly and the temperature of the house was comfortable all through the night. The ventilation was perfect. We had no headaches and fewer colds in the family than ever before.

Mrs. Lamb especially appreciated the cleanliness of the furnace, for we had no dust or soot in the house, nor did we have any damp walls or even frost on the windows. The house plants thrived in windows far distant from the furnace.

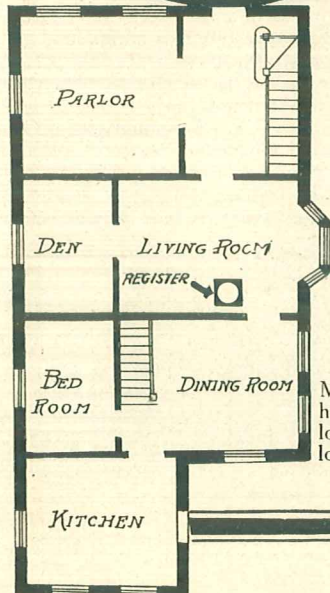
With no coal to carry, no ashes to take out, and so little labor and expense, our Caloric has meant so much to us that we would not think of doing without it any more than we would our electric lights or our Willys-Knight.

IRVIN LAMB

In a set of interesting books, "What They Say About the Caloric Pipeless Furnace," we have published hundreds of letters and pictures of buildings received from Caloric users. Write to us for the book pertaining to your section of the country.

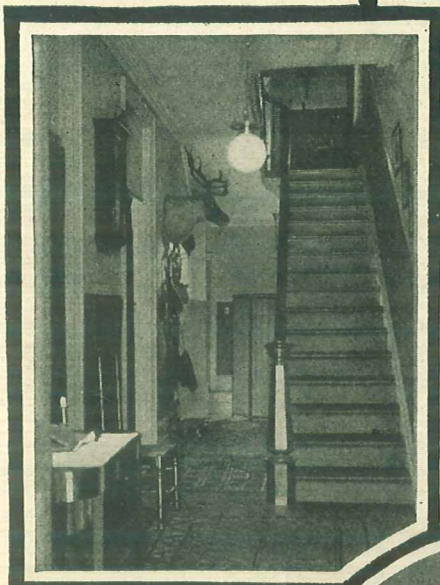


A clean, cool cellar where perishables can be kept without danger of spoiling.

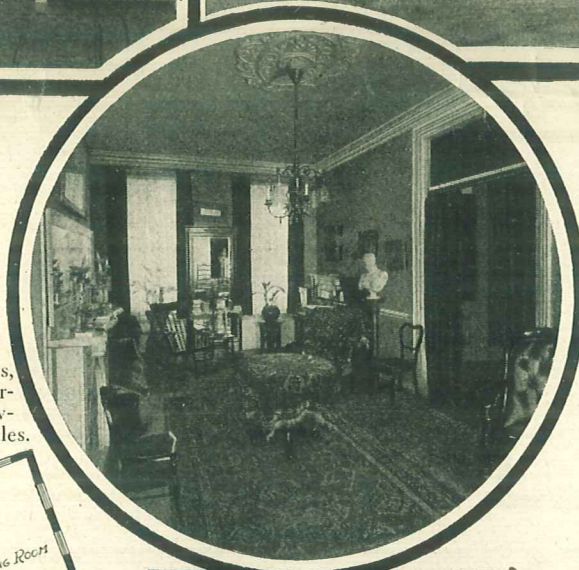


First floor plan of Mr. Lamb's 10-room home, showing the location of the Caloric.

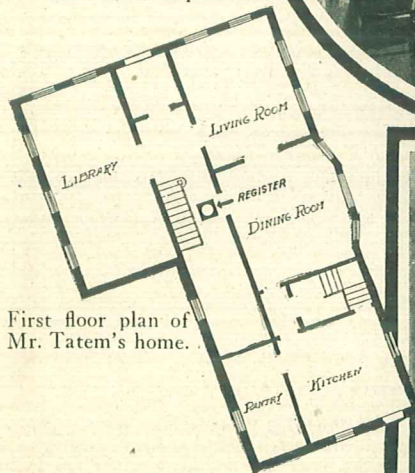
The 14-room home of Mr. J. Fithian Tatem, Philadelphia attorney, is Caloric-heated.



This Caloric register is located in the hall.



Beautiful curtains, ornaments and furnishings are not covered with dust particles.



First floor plan of Mr. Tatem's home.

The cellar is not cluttered with heat-wasting pipes.



Better Heated on Less Fuel

LAW OFFICES
J. FITHIAN TATEM
STEPHEN GIRARD BUILDING
PHILADELPHIA

Philadelphia, Pa., Feb. 15, 1918.

The Monitor Stove Company,
Cincinnati, Ohio.

Gentlemen:

During the severe weather of last winter, when the thermometer went way below zero every morning for more than a week, the Caloric Pipeless Furnace you installed in December, 1917, gave most satisfactory results.

Our home of 14 rooms was comfortable all of the time and we found that the Caloric one register located in our entrance hall gave us plenty of heat in all the rooms, upstairs and down.

Formerly our house was heated with a different type of warm air furnace. We found this winter that not only was the house much better heated by the Caloric, but that its consumption of coal was at least one-third less.

Another Caloric feature which greatly pleases us is its cleanliness. It does not produce the fine dust particles which are so commonly found in homes heated by most warm air furnaces.

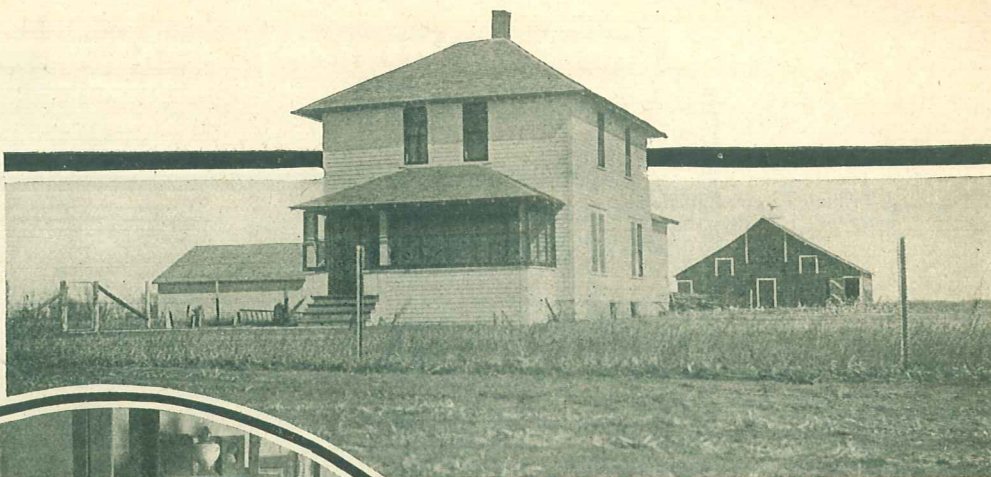
I shall be glad to tell any of the people of this section of my satisfactory experience with the Caloric Pipeless Furnace.

J. FITHIAN TATEM.

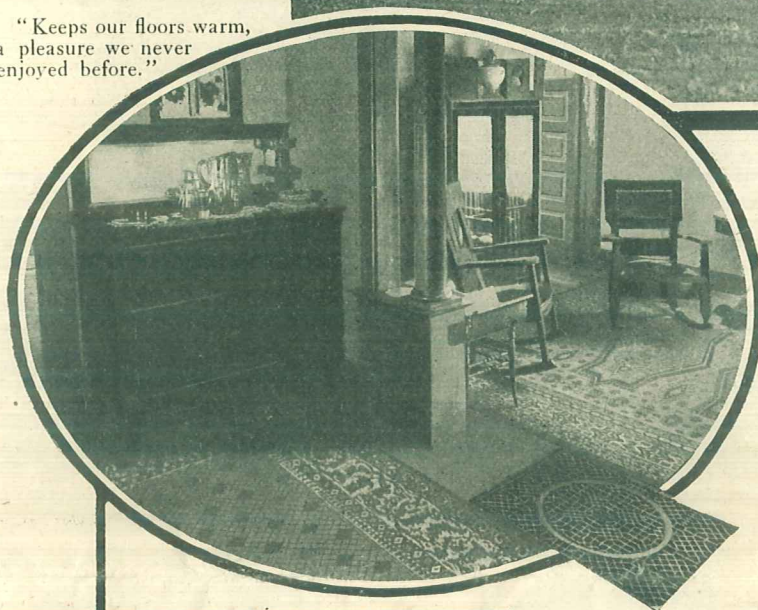
This is one of the many interesting letters published in our book, "The Caloric Comfort Club in the East." Ask the nearest Caloric dealer for a copy or write to us for it.

FURNACE HEAT *for* EVERY HOME

After using the Caloric for two years, Mr. Stearns writes that it keeps his 8-room house uniformly comfortable.



"Keeps our floors warm, a pleasure we never enjoyed before."



"So Low a Cost We Were Astonished"

That is what H. I. Stearns of Brookings, South Dakota, R. F. D. No. 1, says of the Caloric which he installed in his home two years ago. Mr. Stearns is one of the pioneer settlers of South Dakota, having lived in that state for the last 35 years. His opinion of the Caloric Heating System should be of interest to every home owner who is seeking winter comfort.

Brookings, South Dakota, R. F. D., No. 1
March 21, 1918.

The Monitor Stove Company,
Cincinnati, Ohio.
Gentlemen:

"We people up in the Dakotas experience very rough weather. Our home faces the west. We get the northwest winds which are very severe here. That was one of the reasons why, two years ago, I doubted that the Caloric one register would heat my house satisfactorily.

"But we have used the Caloric Pipeless Furnace now for two winters, and are much pleased with it. It keeps our eight room house uniformly comfortable, and our floors warm, a pleasure we never enjoyed before.

"And it is so clean and sanitary. The air is always balmy and sweet, and there is a remarkable freedom from dust and ashes.

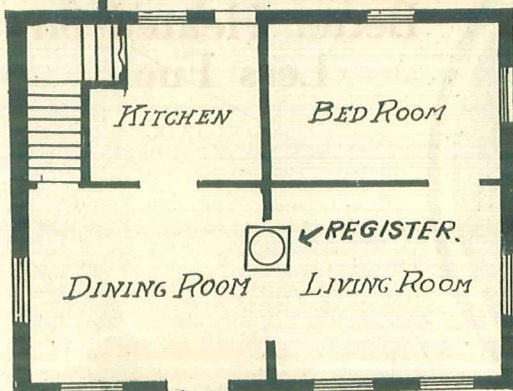
"All this we have enjoyed at so low a cost that we are astonished. Only four tons of coal kept our eight rooms comfortable all last winter—one of the severest we have experienced.

"You see from this why we consider the Caloric a good investment and why we would not part with it for anything. We take great pleasure in recommending it to anyone wanting a good heating plant."

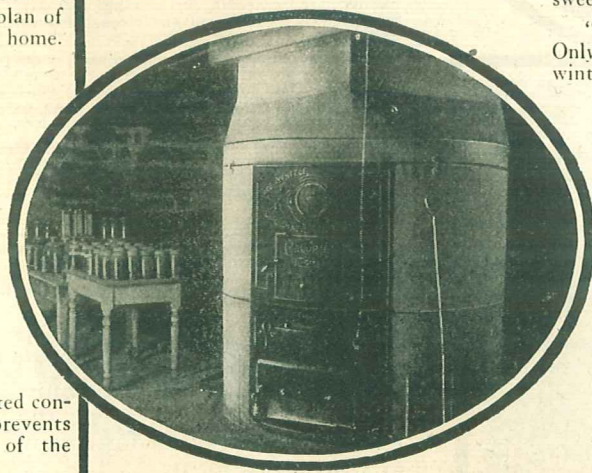
H. I. STEARNS

Mr. Stearns' letter is only one of many which have been published in our book, "The Caloric Comfort Club in the Northwest."

If you have a heating problem to solve, learn what others have done with the Caloric System. Call upon the nearest Caloric dealer and get a copy of this book.



First floor plan of Mr. Stearns' home.



The patented construction prevents overheating of the basement.

THIS WRITTEN GUARANTEE IS ISSUED TO EVERY PURCHASER OF A CALORIC PIPELESS FURNACE. IT IS SIGNED BY THE LOCAL DEALER WHO ADDS HIS PERSONAL GUARANTEE TO THE BACKING WHICH IS GIVEN BY OUR NINETY-NINE YEARS OF EXPERIENCE IN THE MANUFACTURE OF HEATING APPLIANCES AND BY THE REPUTATION WE HAVE BUILT UP THROUGH ALMOST A CENTURY OF SQUARE DEALING.

Monitor Ironclad Guarantee

No. 152483

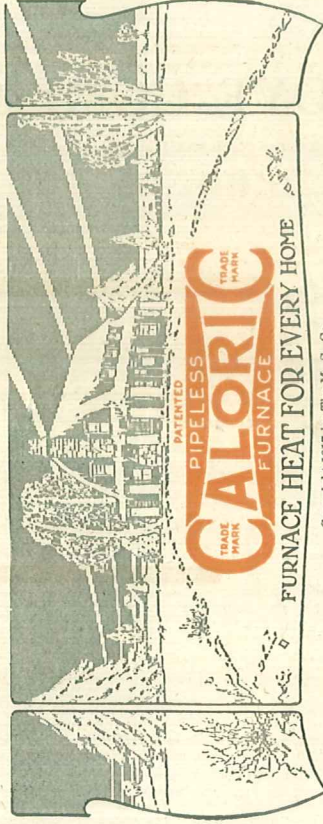
ISSUED BY

THE MONITOR STOVE COMPANY

CINCINNATI, OHIO

"ESTABLISHED 1819"

"99 YEARS OF SERVICE"



SYSTEM
AND
SERVICE

COMFORT
AND
CONVENIENCE

HEALTH
AND
HAPPINESS

ECONOMY
AND
EFFICIENCY

THE ORIGINAL PATENTED PIPELESS FURNACE

Copyright 1917 by The M. S. Co.

Whereas

City of _____

(Name of Purchaser)

at _____

(Street or R. F. D. No.)

State of _____ has purchased from

patented Caloric Pipeless Furnace

Quantity and No. of Furnace _____

for the sum of \$ _____



The Monitor Stove Company, the manufacturer of the patented Caloric Pipeless Furnace, guarantees the material in the same to be free from defect, and further guarantees the Monitor double-fibred fireproof against cracking and breaking for a period of five years. The Manufacturer further guarantees that said furnace has the capacity when properly installed, managed and operated to heat the building of the purchaser to an average of 70° Fahrenheit in the coldest weather.

The purchaser of this furnace agrees to furnish proper fuel, a suitable chimney and to comply with the printed directions concerning the operation of the furnace.

It is mutually agreed that upon making a complete examination of the furnace and will be given the opportunity to remedy any defect in the furnace without charge to the customer.

Caloric Dealer _____

Date _____

THE MONITOR STOVE COMPANY

W. H. Schindler
Chairman of the Board.

The Caloric Pipeless Furnace is sold and installed by hundreds of the most reliable dealers in all sections of the country. It is also carried in stock and shipped from the following distributing points:

Cedar Rapids, Ia.

Green Bay, Wis.

Harrisburg, Pa.

Kansas City, Mo.

Minneapolis, Minn.

Omaha, Neb.

Rochester, N. Y.

Saginaw, Mich.

Salt Lake City, Utah

Spokane, Wash.

THE MONITOR STOVE COMPANY

ESTABLISHED 1819—99 YEARS OF SERVICE

CINCINNATI, OHIO

Form M-W 6. Copyright, 1918, by The Monitor Stove Company

**PIONEERS OF
PIPELESS
HEATING**

If not delivered
within 15 DAYS
POSTMASTER
will please notify
The MONITOR STOVE Co.
CINCINNATI OHIO
Who will provide return postage

As one Sun
heats *the*
entire Earth,
so one Register
heats *your*
entire Home

